

Lab/Cor, Inc.*A Professional Service Corporation in the Northwest*

June 1, 2005

Lab/Cor
7619 6th Ave NW
Seattle, WA 98117**SFUND RECORDS CTR
2118446**

Project Name: Air Quality Monitoring; 3/7/05 - 4/20/05

Project Number: Not Available

P. O. Number: Not Available

Lab/Cor Batch Number: 050737

To Whom It May Concern:

Conditions

Enclosed please find results for samples submitted to our laboratory on April 21, 2005. A list of samples received follows, with limitation or rejection criteria noted where applicable.

Lab/Cor Sample No.	Client Sample No.	Limitation/Rejection Criteria
050737-01	-01	No special conditions were noted
050737-02	-02	No special conditions were noted
050737-03	-03	No special conditions were noted
050737-04	-04	No special conditions were noted

Method

Preparation and analysis of the above samples was conducted in accordance with the EPA method 68-02-3266 (Yamate Level 2) for the identification of asbestos. Briefly, the samples were collapsed with acetone, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in acetone until cleared of filter debris.

TEM analysis was performed using a Philips 410 transmission electron microscope equipped with an EDAX PV9800 X-ray analyzer. The air samples were analyzed at a screen magnification of approximately 17,621X using an accelerating voltage of 100 KV. The sizing of grid openings was performed on the microscope at a magnification of approximately 550X.

Counting Rules

Minimum Aspect Ratio	Minimum Length	Minimum Width	Minimum Required Analytical Sensitivity	Stopping Rules
5:1	0.5 μ m	NA	0.005	50 Structures

Disclaimer

This test report relates only to the items tested in this report. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please do not hesitate to call me. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with analytical services.

Sincerely,

John Harris
Laboratory Director

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report Number: 050737

Report Date: June 1, 2005

Client Information	
<i>Project Name:</i>	Air Quality Monitoring; 3/7/05 - 4/20/05
<i>Project No.:</i>	Not Available
<i>P. O. No.:</i>	Not Available
<i>Sample Type:</i>	Air

Tracking Information			
<i>Login:</i>	Apr 21, 2005	<i>By:</i>	MP
<i>Prep:</i>	Apr 21, 2005	<i>By:</i>	MP
<i>Verified:</i>	Apr 21, 2005	<i>By:</i>	MP
<i>Reviewed:</i>	Feb 21, 1996	<i>By:</i>	JH
<i>Final Review:</i>	Jun 1, 2005	<i>By:</i>	JH

Analysis Information	
<i>Analysis Type:</i>	Mod. EPA-II
<i>Reference No.:</i>	68 - 02 - 3266
<i>Min. Aspect Ratio:</i>	5:1
<i>Min. Length:</i>	0.5 μ m
<i>Min. Width:</i>	NA

FINAL TABLE
Transmission Electron Microscopy – Modified EPA-II – Air Sample Analysis

Lab/Cor Sample No.	Client Sample No.	Description	Fiber Type	Concentration (s/mm ²)	Concentration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count	Analytical Sens. (struc/cc)	Volume (liters)	Number of Grid Openings	Filter Area (mm ²)	Area Analyzed (mm ²)	Analyst	Analysis Date
050737-01 Passive Air	1	Etcher; 3/7/05 - 4/20/05	TOTAL ASBESTOS	0	<2.656	0 - 9.801	0	2.656	1.0	10	385	0.1449	DW	6/1/05
			ASBESTOS \geq 5 μ m	0	<2.656	0 - 9.801	0							
			NON-ASBESTOS	0	<2.656	0 - 9.801	0							
050737-02 Passive Air	2	Mech. Room; 3/7/05 - 4/20/05	TOTAL ASBESTOS	0	<2.656	0 - 9.801	0	2.656	1.0	10	385	0.1449	DW	6/1/05
			ASBESTOS \geq 5 μ m	0	<2.656	0 - 9.801	0							
			NON-ASBESTOS	0	<2.656	0 - 9.801	0							
050737-03 Passive Air	3	Bulk Hood; 3/7/05 - 4/20/05	TOTAL ASBESTOS	0	<2.656	0 - 9.801	0	2.656	1.0	10	385	0.1449	DW	6/1/05
			ASBESTOS \geq 5 μ m	0	<2.656	0 - 9.801	0							
			NON-ASBESTOS	13.8	5.312	0.643 - 19.177	2							
050737-04 Passive Air	4	TEM Hood; 3/7/05 - 4/20/05	TOTAL ASBESTOS	0	<2.656	0 - 9.801	0	2.656	1.0	10	385	0.1449	DW	6/1/05
			ASBESTOS \geq 5 μ m	0	<2.656	0 - 9.801	0							
			NON-ASBESTOS	0	<2.656	0 - 9.801	0							

Lab/Cor, Inc.*A Professional Service Corporation in the Northwest*

Report Number: 050737

Report Date: Jun 1, 2005

Client: Lab/Cor

Lab/Cor Sample No.: 050737-01

Project Name: Air Quality Monitoring; 3/7/05 - 4/20/05

Analyst: DW

Sample No.: 1

Analysis Date: Jun 1, 2005

Description: Etcher; 3/7/05 - 4/20/05

TEM ASBESTOS FIBER COUNT - RAW DATA

Grid	GO No.	Grid Coordinates	Structure No.	Structure Type	Average Length	Average Width	Asbestos						Non-Asbestos	Neg. No.	EDS No.	Elements	Comments	Confirmation	
							Ch	Am	Ac	An	Tr	Cr						By	Date
A	1	D10	NSD**																
	2	D30	NSD																
	3	C40	NSD																
	4	C31	NSD																
	5	C1	NSD																
	6	B12	NSD																
	7	B3	NSD																
B	8	A1	NSD																
	9	D21	NSD																
	10	D32	NSD																
	10						0	0	0	0	0	0	0						

**NSD - No Structures Detected

05073700.TEM

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Ch - Chrysotile

Ac - Actinolite

Tr - Tremolite

Am - Amosite

An - Anthophyllite

Cr - Crocidolite

Lab/Cor, Inc.*A Professional Service Corporation in the Northwest*

Report Number: 050737

Report Date: Jun 1, 2005

Client: Lab/Cor

Lab/Cor Sample No.: 050737-02

Project Name: Air Quality Monitoring; 3/7/05 - 4/20/05

Analyst: DW

Sample No.: 2

Analysis Date: Jun 1, 2005

Description: Mech. Room; 3/7/05 - 4/20/05

TEM ASBESTOS FIBER COUNT – RAW DATA

Grid	GO No.	Grid Coordinates	Structure No.	Structure Type	Average Length	Average Width	Asbestos						Non-Asbestos	Neg. No.	EDS No.	Elements	Comments	Confirmation	
							Ch	Am	Ac	An	Tr	Cr						By	Date
A	1	A42	NSD**																
	2	A22	NSD																
	3	D2	NSD																
	4	D21	NSD																
	5	C30	NSD																
	6	C42	NSD																
	7	B2	NSD																
B	8	B12	NSD																
	9	B41	NSD																
	10	A11	NSD																
	10						0	0	0	0	0	0	0						

**NSD – No Structures Detected

05073700.TEM

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Ch – Chrysotile

Ac – Actinolite

Tr – Tremolite

Am – Amosite

An – Anthophyllite

Cr – Crocidolite

Lab/Cor, Inc.
A Professional Service Corporation in the Northwest

Report Number: 050737

Report Date: Jun 1, 2005

Client: Lab/Cor

Lab/Cor Sample No.: 050737-03

Project Name: Air Quality Monitoring; 3/7/05 - 4/20/05

Analyst: DW

Sample No.: 3

Analysis Date: Jun 1, 2005

Description: Bulk Hood; 3/7/05 - 4/20/05

TEM ASBESTOS FIBER COUNT - RAW DATA

Grid	GO No.	Grid Coordinates	Structure No.	Structure Type	Average Length	Average Width	Asbestos						Non-Asbestos	Neg. No.	EDS No.	Elements	Comments	Confirmation	
							Ch	Am	Ac	An	Tr	Cr						By	Date
A	1	A23	NSD**																
	2	A3	NSD																
	3	D13	NSD																
	4	D32	NSD																
	5	D40	1	Fiber	10	1.2							✓			S, Ca			
			2	Fiber	4.5	0.5							✓			S, Ca			
	6	C31	NSD																
	7	C1	NSD																
B	8	D2	NSD																
	9	A21	NSD																
	10	A41	NSD																
	10						0	0	0	0	0	0	2						

**NSD - No Structures Detected

05073700.TEM

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Ch - Chrysotile

Ac - Actinolite

Tr - Tremolite

Am - Amosite

An - Anthophyllite

Cr - Crocidolite

Lab/Cor, Inc.*A Professional Service Corporation in the Northwest*

Report Number: 050737

Report Date: Jun 1, 2005

Client: Lab/Cor

Lab/Cor Sample No.: 050737-04

Project Name: Air Quality Monitoring; 3/7/05 - 4/20/05

Analyst: DW

Sample No.: 4

Analysis Date: Jun 1, 2005

Description: TEM Hood; 3/7/05 - 4/20/05

TEM ASBESTOS FIBER COUNT – RAW DATA

Grid	GO No.	Grid Coordinates	Structure No.	Structure Type	Average Length	Average Width	Asbestos						Non-Asbestos	Neg. No.	EDS No.	Elements	Comments	Confirmation	
							Ch	Am	Ac	An	Tr	Cr						By	Date
A	1	A42	NSD**																
	2	A21	NSD																
	3	A1	NSD																
	4	D10	NSD																
	5	C30	NSD																
	6	C42	NSD																
	7	C23	NSD																
B	8	D1	NSD																
	9	A32	NSD																
	10	B40	NSD																
	10						0	0	0	0	0	0	0						

**NSD – No Structures Detected

05073700.TEM

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Ch – Chrysotile

Ac – Actinolite

Tr – Tremolite

Am – Amosite

An – Anthophyllite

Cr – Crocidolite

Lab/Cor, Inc.
A Professional Service Corporation in the Northwest

GRID MAP

A69	A68	A67	A66	A65	A64	A63	A62	A61	A60	B60	B61	B62	B63	B64	B65	B66	B67	B68	B69
A59	A58	A57	A56	A55	A54	A53	A52	A51	A50	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59
A49	A48	A47	A46	A45	A44	A43	A42	A41	A40	B40	B41	B42	B43	B44	B45	B46	B47	B48	B49
A39	A38	A37	A36	A35	A34	A33	A32	A31	A30	B30	B31	B32	B33	B34	B35	B36	B37	B38	B39
A29	A28	A27	A26	A25	A24	A23	A22	A21	A20	B20	B21	B22	B23	B24	B25	B26	B27	B28	B29
A19	A18	A17	A16	A15	A14	A13	A12	A11	A10	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19
A9	A8	A7	A6	A5	A4	A3	A2	A1		B1	B2	B3	B4	B5	B6	B7	B8	B9	
D9	D8	D7	D6	D5	D4	D3	D2	D1		C1	C2	C3	C4	C5	C6	C7	C8	C9	
D19	D18	D17	D16	D15	D14	D13	D12	D11	D10	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19
D29	D28	D27	D26	D25	D24	D23	D22	D21	D20	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29
D39	D38	D37	D36	D35	D34	D33	D32	D31	D30	C30	C31	C32	C33	C34	C35	C36	C37	C38	C39
D49	D48	D47	D46	D45	D44	D43	D42	D41	D40	C40	C41	C42	C43	C44	C45	C46	C47	C48	C49
D59	D58	D57	D56	D55	D54	D53	D52	D51	D50	C50	C51	C52	C53	C54	C55	C56	C57	C58	C59
D69	D68	D67	D66	D65	D64	D63	D62	D61	D60	C60	C61	C62	C63	C64	C65	C66	C67	C68	C69

To be used as a reference for grid coordinates from each raw data sheet.

5519

SFUND RECORDS CTR
2118446**Lab/Cor, Inc.***A Professional Service Corporation in the Northwest*

April 12, 2005

Lab/Cor
7619 6th Ave NW
Seattle, WA 98117

Project Name: Air Quality Monitoring; (6/1/04 - 3/7/05)

Project Number: Not Available

P. O. Number: Not Available

Lab/Cor Batch Number: 050429

Conditions

Enclosed please find results for samples submitted to our laboratory on March 7, 2005. A list of samples received follows, with limitation or rejection criteria noted where applicable.

Lab/Cor Sample No.	Client Sample No.	Limitation/Rejection Criteria
050429-01	01	No special conditions were noted
050429-02	02	No special conditions were noted
050429-03	03	No special conditions were noted
050429-04	04	No special conditions were noted

Method

Preparation and analysis of the above samples was conducted in accordance with the modified EPA method 68-02-3266 (Yamate Level 2) for the identification of asbestos. Briefly, the samples were collapsed with acetone, then etched in a low temperature plasma etcher to remove the top surface of the filter and other organics. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in acetone until cleared of filter debris.

TEM analysis was performed using a transmission electron microscope operated at 100KV equipped with an EDS X-ray analyzer. The air samples were analyzed at a screen magnification of approximately 18,105 X using an accelerating voltage of 100 KV. The sizing of grid openings was performed on the microscope at a magnification of approximately 550X.

Counting Rules

Minimum Aspect Ratio	Minimum Length	Minimum Width	Minimum Required Analytical Sensitivity	Stopping Rules
5:1	0.5 μ m	NA	0.005	50 Structures

Disclaimer

This test report relates only to the items tested in this report. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please do not hesitate to call me. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with analytical services.

Sincerely,

John Harris
Laboratory Director

Lab/Cor, Inc.

A Professional Service Corporation in the Northwest

Report Number: 050429

Report Date: April 12, 2005

Client Information	
Project Name:	Air Quality Monitoring (6/1/04 - 3/7/05)
Project No.:	Not Available
P. O. No.:	Not Available
Sample Type:	Passive Air

Tracking Information		
Login:	Mar 7, 2005	By: MP
Prep:	Mar 7, 2005	By: MP
	Mar 9, 2005	MP
Verified:	Mar 7, 2005	By: MP
Reviewed:	Feb 21, 1996	By: JH
Final Review:	Apr 12, 2005	By: JH

Analysis Information	
Analysis Type:	Modified EPA-II
Reference No.:	68 - 02 - 3266
Min. Aspect Ratio:	5:1
Min. Length:	0.5 μ m
Min. Width:	NA

FINAL TABLE
Transmission Electron Microscopy - Modified EPA-II (AHERA like)- Air Sample Analysis

Lab/Cor Sample No.	Client Sample No.	Description	Fiber Type	Concentration (s/mm ²)	Concentration (struc/cc)	95% Confidence Interval (struc/cc)	Struc. Count	Analytical Sens. (struc/cc)	Volume (liters)	Number of Grid Openings	Filter Area (mm ²)	Area Analyzed (mm ²)	Analyst	Analysis Date
050429-01 Passive Air	01	TEM Prep Hood (6/1/04 - 3/7/05)	TOTAL ASBESTOS	0	NA	NA	0	NA	0.0	10	385	0.1449	MQ	3/23/05
			ASBESTOS \geq 5 μ m	0	NA	NA	0							
			NON-ASBESTOS	0	NA	NA	0							
050429-02 Passive Air	02	Plasma Etcher (6/1/04 - 3/7/05)	TOTAL ASBESTOS	0	NA	NA	0	NA	0.0	10	385	0.1449	MQ	4/5/05
			ASBESTOS \geq 5 μ m	0	NA	NA	0							
			NON-ASBESTOS	0	NA	NA	0							
050429-03 Passive Air	03	Bulk Prep Hood (6/1/04 - 3/7/05)	TOTAL ASBESTOS	0	NA	NA	0	NA	0.0	10	385	0.1449	MQ	4/7/05
			ASBESTOS \geq 5 μ m	0	NA	NA	0							
			NON-ASBESTOS	0	NA	NA	0							
050429-04 Passive Air	04	Mechanical Room (6/1/04 - 3/7/05)	TOTAL ASBESTOS	6.9	NA	NA	1	NA	0.0	10	385	0.1449	MQ	4/7/05
			ASBESTOS \geq 5 μ m	0	NA	NA	0							
			NON-ASBESTOS	0	NA	NA	0							

Lab/Cor, Inc.
A Professional Service Corporation in the Northwest

Report Number: 050429

Report Date: Apr 12, 2005

Client: Lab\Cor

Lab/Cor Sample No.: 050429-01

Project Name: Not Available

Analyst: MQ

Sample No.: 01

Analysis Date: Mar 23, 2005

Description: TEM Prep Hood; (6/1/04 - 3/7/05)

TEM ASBESTOS FIBER COUNT - RAW DATA

Grid	GO No.	Grid Coordinates	Structure No.	Structure Type	Average Length	Average Width	Asbestos						Non-Asbestos	Neg. No.	EDS No.	Elements	Comments	Confirmation	
							Ch	Am	Ac	An	Tr	Cr						By	Date
A	1	C 10	NSD**																
	2	C 40	NSD																
	3	D 21	NSD																
	4	A 31	NSD																
	5	B 14	NSD																
B	6	B 30	NSD																
	7	B 42	NSD																
	8	B 13	NSD																
	9	C 41	NSD																
	10	D 21	NSD																
	10						0	0	0	0	0	0	0						

**NSD - No Structures Detected

05042900.TEM

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Ch - Chrysotile

Ac - Actinolite

Tr - Tremolite

Am - Amosite

An - Anthophyllite

Cr - Crocidolite

Lab/Cor, Inc.*A Professional Service Corporation in the Northwest*

Report Number: 050429

Report Date: Apr 12, 2005

Client: Lab\Cor

Lab/Cor Sample No.: 050429-02

Project Name: Not Available

Analyst: MQ

Sample No.: 02

Analysis Date: Apr 5, 2005

Description: Plasma Etcher; (6/1/04 - 3/7/05)

TEM ASBESTOS FIBER COUNT – RAW DATA

Grid	GO No.	Grid Coordinates	Structure No.	Structure Type	Average Length	Average Width	Asbestos						Non-Asbestos	Neg. No.	EDS No.	Elements	Comments	Confirmation	
							Ch	Am	Ac	An	Tr	Cr						By	Date
A	1	C 40	NSD**																
	2	A 40	NSD																
	3	A 32	NSD																
	4	D 41	NSD																
	5	B 10	NSD																
B	6	C 1	NSD																
	7	B 41	NSD																
	8	B 22	NSD																
	9	B 40	NSD																
	10	A 41	NSD																
	10						0	0	0	0	0	0	0						

**NSD – No Structures Detected

05042900.TEM

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Ch – Chrysotile

Ac – Actinolite

Tr – Tremolite

Am – Amosite

An – Anthophyllite

Cr – Crocidolite

Lab/Cor, Inc.
A Professional Service Corporation in the Northwest

Report Number: 050429

Report Date: Apr 12, 2005

Client: Lab\Cor

Lab/Cor Sample No.: 050429-03

Project Name: Not Available

Analyst: MQ

Sample No.: 03

Analysis Date: Apr 7, 2005

Description: Bulk Prep Hood; (6/1/04 - 3/7/05)

TEM ASBESTOS FIBER COUNT – RAW DATA

Grid	GO No.	Grid Coordinates	Structure No.	Structure Type	Average Length	Average Width	Asbestos						Non-Asbestos	Neg. No.	EDS No.	Elements	Comments	Confirmation	
							Ch	Am	Ac	An	Tr	Cr						By	Date
A	1	B21	NSD**																
	2	B31	NSD																
	3	B43	NSD																
	4	C10	NSD																
	5	A32	NSD																
B	6	B30	NSD																
	7	B42	NSD																
	8	B34	NSD																
	9	C10	NSD																
	10	D21	NSD																
	10						0	0	0	0	0	0	0						

**NSD – No Structures Detected

05042900.TEM

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Ch – Chrysotile

Ac – Actinolite

Tr – Tremolite

Am – Amosite

An – Anthophyllite

Cr – Crocidolite

Lab/Cor, Inc.*A Professional Service Corporation in the Northwest*

Report Number: 050429

Report Date: Apr 12, 2005

Client: Lab\Cor

Lab/Cor Sample No.: 050429-04

Project Name: Not Available

Analyst: MQ

Sample No.: 04

Analysis Date: Apr 7, 2005

Description: Mechanical Room; (6/1/04 - 3/7/05)

TEM ASBESTOS FIBER COUNT - RAW DATA

Grid	GO No.	Grid Coordinates	Structure No.	Structure Type	Average Length	Average Width	Asbestos						Non-Asbestos	Neg. No.	EDS No.	Elements	Comments	Confirmation	
							Ch	Am	Ac	An	Tr	Cr						By	Date
A	1	A41	NSD**																
	2	A42	NSD																
	3	D31	NSD																
	4	A11	NSD																
	5	C40	NSD																
B	6	B41	NSD																
	7	C44	1	Bundle - 4	2	0.75	✓								15985	Mg, Si, Fe			
	8	B44	NSD																
	9	B42	NSD																
	10	A40	NSD																
	10						1	0	0	0	0	0	0						

**NSD - No Structures Detected

05042900.TEM

Page 6 of 7

Ch - Chrysotile

Ac - Actinolite

Tr - Tremolite

Am - Amosite

An - Anthophyllite

Cr - Crocidolite

Lab/Cor, Inc.
A Professional Service Corporation in the Northwest

GRID MAP

A69	A68	A67	A66	A65	A64	A63	A62	A61	A60	B60	B61	B62	B63	B64	B65	B66	B67	B68	B69
A59	A58	A57	A56	A55	A54	A53	A52	A51	A50	B50	B51	B52	B53	B54	B55	B56	B57	B58	B59
A49	A48	A47	A46	A45	A44	A43	A42	A41	A40	B40	B41	B42	B43	B44	B45	B46	B47	B48	B49
A39	A38	A37	A36	A35	A34	A33	A32	A31	A30	B30	B31	B32	B33	B34	B35	B36	B37	B38	B39
A29	A28	A27	A26	A25	A24	A23	A22	A21	A20	B20	B21	B22	B23	B24	B25	B26	B27	B28	B29
A19	A18	A17	A16	A15	A14	A13	A12	A11	A10	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19
A9	A8	A7	A6	A5	A4	A3	A2	A1		B1	B2	B3	B4	B5	B6	B7	B8	B9	
D9	D8	D7	D6	D5	D4	D3	D2	D1		C1	C2	C3	C4	C5	C6	C7	C8	C9	
D19	D18	D17	D16	D15	D14	D13	D12	D11	D10	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19
D29	D28	D27	D26	D25	D24	D23	D22	D21	D20	C20	C21	C22	C23	C24	C25	C26	C27	C28	C29
D39	D38	D37	D36	D35	D34	D33	D32	D31	D30	C30	C31	C32	C33	C34	C35	C36	C37	C38	C39
D49	D48	D47	D46	D45	D44	D43	D42	D41	D40	C40	C41	C42	C43	C44	C45	C46	C47	C48	C49
D59	D58	D57	D56	D55	D54	D53	D52	D51	D50	C50	C51	C52	C53	C54	C55	C56	C57	C58	C59
D69	D68	D67	D66	D65	D64	D63	D62	D61	D60	C60	C61	C62	C63	C64	C65	C66	C67	C68	C69

To be used as a reference for grid coordinates from each raw data sheet.